

IACAI Skill Review



This edition of the IACAI Skill Review has to do with Time/Distance calculations!!
The answers will be in the next issue of the Association. Enjoy!!

1. If a vehicle decelerates from 100 ft/sec for 2.3 sec at a rate of 20 ft/sec/sec, what is the distance traveled?
 - a. 100 ft
 - b. 120 ft
 - c. 177 ft
 - d. 220 ft

2. If a vehicle decelerates over a distance of 75 feet from a velocity of 60 mph for 5 seconds, what is the vehicle's acceleration rate?
 - a. -6.5 ft/sec/sec
 - b. -4.6 ft/sec/sec
 - c. -29.2 ft/sec/sec
 - d. -17.71 ft/sec/sec

3. A vehicle decelerates to a stop from a speed of 60 mph with a drag factor of 0.50. What is the distance required for the vehicle to stop?
 - a. 290 ft
 - b. 240 ft
 - c. 88 ft
 - d. 120 ft

4. A pedestrian is walking at a velocity of 4 ft/sec. He travels a distance of 20 feet. What is the time required?
 - a. 14 sec
 - b. 5 sec
 - c. 7.7 sec
 - d. 19 sec

5. A vehicle slows from 60 mph to 30 mph with a drag factor of 0.70. What is the time required to do this?
 - a. 2.03 sec
 - b. 1.2 sec
 - c. 1.96 sec
 - d. 2.4 sec

Answers to last

issues' Skill

Review:

1. b
2. d
3. d
4. c
5. E